

What is claimed is:

1. A cryptographic communication method for use in cryptographic communication of information through communication line among plural CPUs wherein
 - 5 cryptographic algorithms containing chaos block encryption and chaos stream encryption are installed in each of said plural CPUs and
 - 10 said plural CPUs carry out cryptographic communication of information by combining said chaos block encryption and said chaos stream encryption.
- 15 2. A cryptographic communication system constructed by connecting plural CPUs through communication line for carrying out cryptographic communication among the CPUs, wherein
 - 20 said plural CPUs, after enciphering a plaintext code which is a secrecy object by chaos block encryption, encipher by chaos stream encryption and transmits an obtained cipher code, and
 - 25 after synchronously restoring a received cipher code by said chaos stream encryption, restore by said chaos block encryption so as to obtain an original plaintext code.
- 30 3. A cryptographic communication system constructed by connecting plural CPUs through communication line for carrying out cryptographic communication among the CPUs, wherein
 - 35 said plural CPUs, after enciphering a plaintext code which is a secrecy object by chaos block encryption, encipher by chaos stream encryption and transmits an obtained cipher code, and
 - 40 after synchronously restoring a received cipher code by said chaos stream encryption, verify a block cipher key and after it is certified that it is a legal access, restore by said chaos block encryption so as to obtain an original plaintext code.

4. A chaos cryptographic communication method as claimed
in claim 1 wherein respective data bases for a cipher key,
a cipher table and a restoration table in said chaos block
encryption is controlled unitarily by providing with an
5 appropriate initial value $x(0)$.

5. A chaos cryptographic communication method as claimed
in claim 2 wherein respective data bases for a cipher key,
a cipher table and a restoration table in said chaos block
10 encryption is controlled unitarily by providing with an
appropriate initial value $x(0)$.

6. A chaos cryptographic communication method as claimed
in claim 3 wherein respective data bases for a cipher key,
15 a cipher table and a restoration table in said chaos block
encryption is controlled unitarily by providing with an
appropriate initial value $x(0)$.